Nixon & Vanderhye P.C. (12/95)

RULE 63 (37 C.F.R. 1.63) DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I be. I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

505,000	matter windir is defined (DIDAL PHOTONIC CRYSTALS			
the spe	cification of which (check		DIDAL PHOTONIC CRISTALS			
	attached hereto	Cappinadoic Bax(3)).				
=	vas filed on	as U.S. Application Serial No.				Atta Dia Na
⊠ v	ras filed as PCT Internation	onal application No.	PCT/GB00/03405	o	05/09/00	Atty Dkt. No.
and (if a	policable to U.S. or PCT	application) was amended on	26/11/01	— ⁰¹¹	03/09/00	
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amenor 37 C.F.I below a priority i Priority	nent referred to above. I R. 1.56. I hereby claim fo nd have also identified be	ed and understand the contents acknowledge the duty to disclor preign priority benefits under 35 alow any foreign application for it is claimed, before the filing dat	se information which is material U.S.C. 119/365 of any foreign a patent or inventor's certificate h	to the pa	tentability of this	application in accordance with inventor's certificate listed nat of the application on which
992104			GB			Day/Month/Year Filed 07/09/99
U.S.C. 1	matter of each of the claii I12, I acknowledge the di	35 U.S.C. 120/365 of all prior Ur ms of this application is not disc uty to disclose material informat PCT international filing date of the	dosed in such prior applications ion as defined in 37 C.F.R. 1.56	in the ma	nner provided by	the first naragraph of 35
Prior U.	S./PCT Application(s):					Chahuan maharaha d
Application Serial No.			Day/Month/Year Filed			Status: patented
Applica	tion Serial No.		Day/Month/Year Filed			pending, abandoned
	tion Serial No. 100/03405		05/09/00			pending, abandoned PENDING
PCT/GB I hereby be true; imprison applicati 22201-4 address connecte 30184; F Spooner Thomas	declare that all statemen and further that these statement, or both, under Secon or any patent issued to 714, telephone number individually and collectived therewith and with the Robert W. Faris, 31352; F. 27393; Leonard C. Mitc E. Byme, 32205; Mary J.	ats made herein of my own known tements were made with the known of the Unite tion 1001 of Title 18 of the Unite hereon. And I hereby appoint M (703) 816-4000 (to whom all comely my attorneys to prosecute resulting patent: Arthur R. Cra Richard G. Besha, 22770; Mark hard, 29009; Duane M. Byers, 3 Wilson, 32955; J. Scott Davids erquist, 34776; Updeep S. Gill, 3	o5/09/00 wiedge are true and that all state towledge that wilful false statemed States Code and that such wilXON & VANDERHYE P.C., 11 communications are to be directly and the sapplication and to transact a swford, 25327; Larry S. Nixon, 2 E. Nusbaum, 32348; Michael J. 33363; Jeffry H. Nelson, 30481; son, 33489; Alan M. Kagen, 361	nents and villful false 100 North octed), an ill busines 5640; Rol Keenan, John R. L 78: Willia	the like so made statements may Glebe Rd., 8 th Fd the following at s in the Patent a pert A. Vanderhy 32106; Bryan H. astova, 33149; Fm. J. Griffin, 3126	pending on and belief are believed to are punishable by fine or peopardize the validity of the cloor, Arlington, VA tomeys thereof (of the same and Trademark Office e, 27076; James T. Hosmer, Davidson, 30251; Stanley C. d. Warren Burnam, Jr. 29366; St. Pohert A. Molan, 29834;
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FOR ADDITIONAL INVENTORS, check box 🛛 and attach sheet with same information and signature and date for each.

Nixon & Vanderhye P.C. (12/95)

RULE 63 (37 C.F.R. 1.63) DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Page 2

J.	Inventor's Signature:				Date:	
	Inventor:	John	G	RARITY		GB
		(first)	MI	(last)		(citizenship)
	Residence: (city)	QinetiQ Malvem		(state/country) GB		
	Post Office Address:	St Andrews Road, Malver	rn Worcs			
	(Zip Code)	WR14 3PS				
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	*					
4.	Inventor's Signature:				Date:	
	Inventor:	Terence	J	SHEPHERD		GB
		(first)	Mi	(last)		(citizenship)
	Residence: (city)	QinetiQ Malvern		(state/country) GB		
	Post Office Address:	St Andrews Road, Malver	n Worcs			
	(Zip Code)	WR14 3PS				
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5.	Inventor's Signature:	_ S. kut_	~		Date:	9/04/07.
	Inventor:	Stephen	С	KITSON		GB
•		(first)	MI	(la <u>st)</u>		(citizenship)
	Residence: (city)	Bristol		(state/country) GB		
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	(Zip Code)	BS34 8QZ		 		
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6.	Inventor's Signature:			······	Date:	
	Inventor:		• • •			7-11 L. 1
		(first)	MI	(la <u>st)</u>		(citizenship)
	Residence: (city)			(state/country)		
	Post Office Address:					
	(Zip Code)					
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7.	Inventor's Signature:				Date:	
	Inventor:	(E+)	MI	(last)		(citizenship)
	Danistanan (2154)	(first)		(atata/acustor)		(Gitizensilip)
	Residence: (city)					
	Post Office Address:			·		
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	Inventado Signaturo:				Date:	
8.	Inventor's Signature:	- · · · · · · · · · · · · · · · · · · ·			. Date.	
	Inventor:	(first)	MI	(last)		(citizenship)
	Residence: (city)	(mac)		(state/country)		(Giazonomp)
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9.	Inventor's Signature:				Date:	
3.	Inventor:					
	mventor.	(first)	MI	(last)		(citizenship)
	Residence: (city)	((state/country)		
	Post Office Address:					
	(Zip Code)					
	(
10.	Inventor's Signature:				Date:	
	Inventor:					
		(first)	MI	(last)		(citizenship)
	Residence: (city)			(state/country)		
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RULE 63 (37 C.F.R. 1.63) DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

elow named inventor, I hereby declar that my residence, post office address and citizenship are as stated below next to my name, and I believe ne original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: COLLOIDAL PHOTONIC CRYSTALS the specification of which (check applicable box(s)): is attached hereto ▢ was filed on as U.S. Application Serial No. Atty Dkt. No was filed as PCT International application No. Ø PCT/GB00/03405 05/09/00 and (if applicable to U.S. or PCT application) was amended on 26/11/01 I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendm intreferred to above. I acknowledge the duty to disclose information which is material to the patentability of this application in accordance wit 37 C.F.R. 1.56. I hereby claim foreign priority benefits under 35 U.S.C. 119/365 of any foreign application(s) for patent or inventor's certificat listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on whic priority is claimed or, if no priority is claimed, before the filing date of this application: Priority Foreign Application(s): Applicati n Number Country Day/Month/Y ar File 9921048.6 GB 07/09/9 I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below. **Application Number** Date/Month/Year Filed I hereby claim the benefit under 35 U.S.C. 120/365 of all prior United States and PCT international applications listed above or below and, insofar as th subject matter of each of the claims of this application is not disclosed in such prior applications in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. 1.56 which occurred between the filing date of the prior applications and the national or PCT international filing date of this application: Prior U.S./PCT Application(s): Status: patente Application Serial No. Day/Month/Year Filed pending, abandone PCT/GB00/03405 05/09/00 PENDIN I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. And I hereby appoint NIXON & VANDERHYE P.C., 1100 North Glebe Rd., 8th Floor, Arlington, VA 22201-4714, telephone number (703) 816-4000 (to whom all communications are to be directed), and the following attorneys thereof (of the same address) individually and collectively my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent: Arthur R. Crawford, 25327; Larry S. Nixon, 25640; Robert A. Vanderhye, 27076; James T. Hosmer 30184; Robert W. Faris, 31352; Richard G. Besha, 22770; Mark E. Nusbaum, 32348; Michael J. Keenan, 32106; Bryan H. Davidson, 30251; Stanley C Spooner, 27393; Leonard C. Mitchard, 29009; Duane M. Byers, 33363; Jeffry H. Nelson, 30481; John R. Lastova, 33149; H. Warren Burnarn, Jr. 29366 Thomas E. Byrne, 32205; Mary J. Wilson, 32955; J. Scott Davidson, 33489; Alan M. Kagen, 36178; William J. Griffin, 31260; Robert A. Molan, 29834; B. J. Sadoff, 36663; James D. Berquist, 34776; Updeen S. Gill, 37334; Michael J. Shea, 34725; Donald L. Jackson, 41090; Michelle N. Lester, 32331. Inventor's Signature: Richard Inventor: М AMOS GB (first) MI (last) (citizenship) QinetiQ Malvern Residence: (city) (state/country) Post Office Address: St Andrews Road, Malvern (Zip Code) **WR14 3PS** Inventor's Signature: Inventor: TAPSTER Paul (first) (citizenship) (last) Residence: (city) QinetiQ Malvem (state/country) St Andrews Road, Malvern Post Office Address: Worcs

FOR ADDITIONAL INVENTORS, check box 🔯 and attach sheet with same information and signature and date for each.

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Nixon & Vanderhye P.C. (12/95)

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Page 2 IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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